## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

pplicant:

Richard I. Masel et al.

Senial No.:

10/578,055

hf. No.:

4911

July 27, 2006

For:

FORMIC ACID FUEL CELLS AND

**CATALYSTS** 

Art Unit:

1745

Examiner:

Unknown

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July 31, 2007

Date

Attorney for Applicant(s) Registration No. 40,607

## INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. §1.97(b) within any of the following time periods, whichever occurs

- (a) within three months of either the filing date of the application or the date of entry into the national stage; or
- before the mailing date of First Office Action on the merits (i.e., not including actions such as restriction requirements); or
- before the mailing of a First Office Action after the filing of a Request for Continuing Examination.

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of foreign patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

It is requested that the information disclosed on the enclosed Form PTO-1449 be made of record in this application.

Copies of the all cited references can be found in application Serial No. 10/817,361, filed April 2, 2004; application Serial No. 10/407,385 now U.S. Patent No. 7,132,188; and in application Serial No. 10/664,772; which the present applications claim priority on (see, 37 C.F.R. §1.98(d)) except for the following references: GB1292791 and GB1273045 and 6,485,851 which are provided herewith.

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R.§§1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

300 South Wacker Drive - Suite 2500

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Facsimile: (312) 360-9315 Customer Number 24978 P:\DOCS\1201\68586\BE4834.DOC

Thomas R. Fitzsimons, Reg. No, 40,607

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MW/

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Attorney Docket No.: 1201.68586 Serial No.: 10/578,055 Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office (Rev. 8-88) Applicant: Richard I. Masel et al. INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Filing Date: May 2, 2006 Group: 1745 U.S. PATENT DOCUMENTS Examiner Filing Date Initial\* Document Number Date Name Class Subclass If Appropriate /NW/ 6.020.083 02/01/2000 Breault et al. 6,146,782 11/14/2000 Wendt et al. 6,165,635 12/26/2000 Auer et al. 6.248.460 | 06/19/2001 Surampudi et al. 6,284,402 09/04/2001 Mallouk et al. 6.326.098 | 12/04/2001 Itoh et al. 6,387,557 05/14/2002 Krasij et al. 6.432.284 | 08/13/2002 Narayanan et al. 6,447,941 09/10/2002 Tomimatsu et al. 6,458,479 10/01/2002 Ren et al. 6,492,147 12/10/2002 Imamura et al. 6,492,052 12/10/2002 Ren 6.495.278 | 10/01/2002 Schmid et al. 6,498,121 12/24/2002 Gorer 6,517,965 02/11/2003 Gorer 6,533,827 | 04/19/2003 Cisar et al. 6,649,300 11/18/2003 lto et al. 6,660,680 12/09/2003 Hampden-Smith et al. 6,670,301 12/30/2003 Adzic et al. Mao et al. 6,686,308 02/03/2004 6,723,678 04/20/2004 Gorer 6.770.394 08/03/2004 Appleby et al. <del>/MW/</del> 6,924,055 08/02/2005 Hirsch et al. FOREIGN PATENT DOCUMENTS Translation **Document Number** Date Yes Country Class Subclass No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Papageorgopoulos, D. et al.; "CO Tolerance of Pd Rich Platinum Paladium Carbon Supported Electrocatalysts fro PEMFC Applications", Journal of the Electrochemical Society, in press, August 2002, pp. 1-22. Adzic, R. et al.: "Structural Effects in Electrocatalysis", J. Electroanal, Chem., 1983, pp. 79-88. Avramov-lvic, M. et al.; "The electrocatalytic properties of the oxides of noble metals in the electrooxidation of methanol and formic acid", Electrochimica Acta, 2001, pp. 3175-3180 Baldauf, M. et al.; "Formic Acid Oxidation on Ultrathin Pd Films on Au(hkl) and Pt(hkl) Electrodes", J. Phys. Chem., 1996, pp. 11375-11381. Becerik, I. et al.; "Electro-oxidation of Formic Acid on Highly Dispersed Platinum and Perchlorate Doped Polypyrrole Electrodes", Journal of The Electrochemical Society, 2001, pp. D49-D54. Capon, A. et al.; "The Effect of Strong Acid on the Reactions of Hydrogen And Oxygen on the Noble Metals a Study Using Cyclic Voltammetry and a New Teflon Electrode Holder", Electroanalytical Chemistry and Interfacial /MW Electrochemistry, 1972, pp. 275-286. 03/30/2008 /Monique Wills/ Examiner **Date Considered** \*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through ALL REFERENCE OF THE SOUTH OF T

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